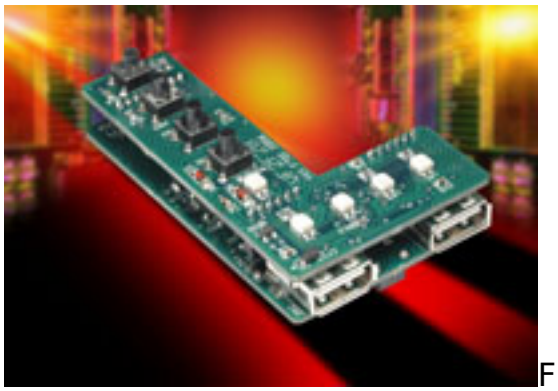
Reference Design Allows Rapid USB Mass Storage Interface Development



Future Technology Devices International Limited (FTDI) announced the availability of the VF2F2 reference design module for its Vinculum VNC1L embedded USB host controller. The design incorporates a practical firmware application that demonstrates file transfer using the USB mass storage class interface. It permits moving files from a USB device to a USB flash disk. The design could also be used to transfer files between other mass storage class devices such as MP3 players or between two USB flash disks. The module is equipped with two USB type A sockets and four control buttons. An onboard DC/DC converter provides 5V and 3.3V supply from the attached battery pack that holds 2×AAA cells. Four LEDs provide indication of flash disk enumeration, file copy, power and error conditions. The VNC1L IC provides all USB host interface and data transfer functions in addition to encapsulating the USB device classes. It also manages the allocation table (FAT) structure via a straightforward command set. Vinculum is based around a unique 8-bit processor as the controller. A 32-bit coprocessor provides file system calculations and two direct memory access (DMA) engines handle data transfers. The device contains 64 KB of embedded flash program memory and 4 KB of internal SRAM.

Future Technology Devices International
503-547-0988, www.ftdichip.com [1]

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